


## EXHIBIT E

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INVENTION DISCLOSURE



PDNO **10011696**

DATE RCVD

PAGE ONE OF **4**

ATTORNEY **EAA**

Instructions: The information contained in this document is **COMPANY CONFIDENTIAL** and may not be disclosed to others without prior authorization. Submit this disclosure to the HP Legal Department as soon as possible. No patent protection is possible until a patent application is authorized, prepared, and submitted to the Government.

**Descriptive Title of Invention:**  
**Ink Jet Emissions Condensate Collection and Storage System Allowing Water Evaporation to Reduce Storage Volume**

**Name of Project:**  
**FALCON**

**Product Name or Number:**  
**Scanning/Page Wide Array**

Was a description of the invention published, or are you planning to publish? If so, the date(s) and publication(s):

Was a product including the invention announced, offered for sale, sold, or is such activity proposed? If so, the date(s) and location(s):

Was the invention disclosed to anyone outside of HP, or will such disclosure occur? If so, the date(s) and name(s):

If any of the above situations will occur within 3 months, call your IP attorney or the Legal Department now at 1-888-4819 or 970-896-4919.

Was the invention described in a lab book or other record? If so, please identify (lab book #, etc.):

Was the invention built or tested? If so, the date:

Was this invention made under a government contract? If so, the agency and contract number:

**Description of Invention:** Please preserve all records of the invention and attach additional pages for the following. Each additional page should be signed and dated by the inventor(s) and witness(es).

- A. Description of the construction and operation of the invention (include appropriate schematic, block, & timing diagrams; drawings; samples; graphs; flowcharts; computer listings; test results; etc.)
- B. Advantages of the invention over what has been done before.
- C. Problems solved by the invention.
- D. Prior solutions and their disadvantages (if available, attach copies of product literature, technical articles, patents, etc.).

**Signature of Inventor(s):** Pursuant to my (our) employment agreement, I (we) submit this disclosure on this date: 1.

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(If more than four inventors, include additional information on another copy of this form and attach to this document)

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INVENTION DISCLOSURE		COMPANY CONFIDENTIAL	PAGE <u>2</u> OF <u>4</u>
Signature of Witness(es): (Please try to obtain the signature of the person(s) to whom invention was first disclosed.)			
The invention was first explained to, and understood by, me (us) on this date: [ ]		Date of Signature	
Full Name	Signature	Date of Signature	
Wade Antoine Powell	Wade A. Powell		
Full Name	Signature	Date of Signature	
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Mike Riou

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*M. Riou*  
*David Christman***A: Description of Invention**

New high throughput writing systems will require heaters to drive off moisture from the paper. This is required to achieve handleability and stacking goals for the output. Once the paper and ink is heated, the high humidity air must be collected, processed and exhausted to the atmosphere. The humid air is a mixture of water from the ink, paper, solvents from the ink, and ink aerosol. Once the water and solvents have been condensed out of the system, they have to be put in a reservoir for storage or disposal.

This invention uses an open container as a reservoir. The condensate is pumped into the container. The container has a foam or cloth diaper to absorb the condensate. The foam has sufficient capillary action to prevent spillage if the container is tipped over. The container is open to the environment which allows the water to evaporate away. The solvents have a different vapour pressure and therefore mostly remain in the foam.

(See attached diagram for a schematic of system.)

**B: Advantages of Invention:**

- 1) A small container can be used since the water (approx. 80% of the condensate) is evaporated.
- 2) The amount of waste we have to deal with is a lot smaller than without evaporation.
- 3) The foam in the reservoir (or the complete reservoir can be changed during service intervals.

**C: Problems Solved by the Invention:**

- 1) The amount of condensate is minimized since 80% is water and evaporates.

**D: Prior Solutions and their Disadvantages:**

The only solution I know of is an aerosol fan to remove air from the interior of the printer. We have never cooled or condensed vapour.

Witnesses:*Wade A. Powell*  
*John Banning*

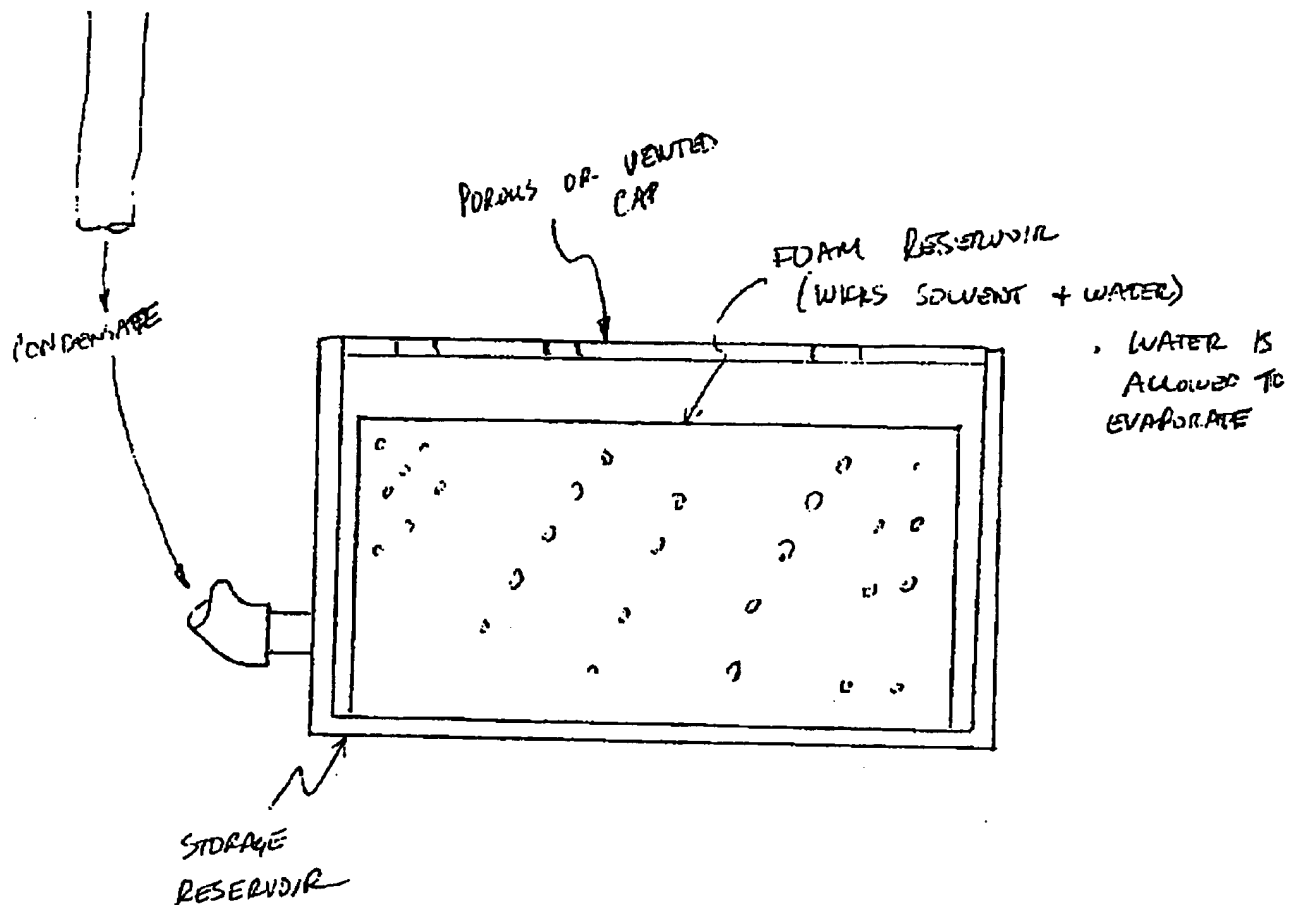
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TITLE OPEN CONDENSATE STORAGE RESERVOIR

Project No. \_\_\_\_\_

Book No. \_\_\_\_\_

From Page No. \_\_\_\_\_

*M. King*  
*David Christensen*Witnesses:*Wade A. Powell*  
*John Brung*

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